

Claims

- sub B' 1. A roll for a paper or board machine comprising axle journals (13A,13B) supported by which the roll is arranged to revolve, end flanges (12A,12B) to which the axle journals (13A,13B) are connected, a mantle (11) which is connected to the end flanges (12A,12B) and into which mantle (11) a number of openings extending through the mantle (11) and/or recesses (15) formed into the outer surface of the mantle have been made, which openings and/or recesses form a regular pattern, ^{wherein} ~~characterized in that~~ solid connecting portions in the outer surface of the mantle (11) around said openings, which are preferably holes, and/or around said recesses, which are preferably blind-drilled bores (15), are opened so that, from each opening and/or recess or from their countersink (15), there is a connection, provided in the form of a groove or an additional recess (16,17,40,41,30,50) extending into the outer surface of the roll mantle (11), with at least each of the openings and/or recesses or their countersinks (15) closest to it.
2. A roll as claimed in claim 1, ^{wherein} ~~characterized in that~~ a double grooving (16,17) is formed into the outer surface of the roll mantle (11) such that the first grooving (16) connects a row of holes and/or blind-drilled bores or their countersinks (15) in a first direction (S1) and the second grooving (17) connects a row of holes and/or blind-drilled bores or their countersinks (15) in a second direction (S2) which crosses the first direction (S1), whereby separate support points (18) supporting the wire and situated between the holes and/or blind-drilled bores or their countersinks (15) are formed into the outer surface of the roll mantle (11).
3. A roll as claimed in claim 1, ^{wherein} ~~characterized in that~~ a double grooving (40,41) is formed into the outer surface of the roll mantle (11) such that the first grooving (40) is made in a first direction (S1) between a row formed of holes and/or blind-drilled bores or their countersinks (15) and the second grooving (41) is made in a second direction (S2) between a row formed of holes and/or blind-drilled bores or their countersinks (15), which second direction (S2) crosses the first direction (S1), whereby separate support points (42) supporting the wire and situated at the edges

of the holes and/or blind-drilled bores or their countersinks (15) are formed into the outer surface of the roll mantle (11).

- a 4. A roll as claimed in claim 1, ~~characterized in that~~ ^{wherein} circular grooves (30) are
5 formed into the outer surface of the roll mantle (11) around the holes and/or blind-drilled bores or their countersinks (15).

- a 5. A roll as claimed in claim 4, ~~characterized in that~~ ^{wherein} the centres of the circular
10 grooves (30) coincide with the centres of the holes and/or blind-drilled bores (15) and the centre radii of the circumference of the grooves (30) are equal to the distance between the centres of the holes and/or blind-drilled bores (15) so that the grooves (30) form channels that connect the holes and/or the blind-drilled bores (15).

- a 6. A roll as claimed in claim 1, ~~characterized in that~~ ^{wherein} additional blind-drilled bores
15 (50) are made into the outer surface of the roll mantle (11) between the holes and/or blind-drilled bores or their countersinks (15) such that the additional blind-drilled bores (50) have a connection to each of the holes and/or blind-drilled bores or their countersinks (15) closest to it.

add²⁰
A2 >

add
c5